International application No.

PCT/AU2004/000429

Γ		PCT/AU2004	/000429					
A.	CLASSIFICATION OF SUBJECT MATTER							
Int. Cl. 7:	G01N 33/52, G01N 33/574, C12Q 1/68							
According to	According to International Patent Classification (IPC) or to both national classification and IPC							
i .	FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols) SEE ABOVE								
Documentation SEE BELOV	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SEE BELOW							
Electronic data	base consulted during the international search (name of data base and, where practicable, see	arch terms used)						
karyotype)	WPIDS, CAPLUS, BIOSIS (Comparitive genomic hybridization, CGH, chr	omosomes, mic	roarrays,					
C.	DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.							
X Y	Fiegler H, et al; Genes Chromosomes Cancer (2003, April, published online 27 January 2003), 36 (4): 361-74.							
	DNA microarrays for comparitive genomic hybridization based DOP-PCR							
	amplification of BAC and PAC clones.' (Abstract; Introduction; Materials and Methods; Discussion)							
· X Y	Martinez-Ramirez A, et al; Cancer Genetics and Cytogenetics (2003), 144(1): 87-89.  'Array comparative genomic hybridization analysis of myelodysplastic syndromes with complex karyotypes. A technical evaluation' (Entire document)  1-6, 11-16, 19-35, 40-4, 48-58 and 104-108							
į			·					
X Fu	urther documents are listed in the continuation of Box C X See pat	ent family anne	×					
* Special categories of cited documents:								
"A" document defining the general state of the art which is not considered to be of particular relevance later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory								
"E" earlier app	underlying the invention							
"L" document or which i	"L" document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention cannot be considered to							
another ci "O" document	r citation or other special reason (as specified) such documents, such combination being obvious to a person skilled in the art							
"P" document	or other means "&" document member of the same patent family  P" document published prior to the international filing date but later than the priority date claimed							
Date of the actual completion of the international search  Date of mailing of the international search report								
18 May 2004 2 5 MAY 2004								
Name and mailing address of the ISA/AU  Authorized officer								
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA B-mail address: pct@ipaustralia.gov.au Philippa Wyrdeman Facsimile No. (02) 6285 3929 Telephone No. (02) 6283 2554								
Telephone No: (02) 6283 2554								

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~	PC1/AU20	04/000429	
C (Continuat	ion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	Sudbark R; et al; Human Molecular Genetics (2001), 10(1): 77-83.  'X chromosome-specific cDNA arrays: identification of genes that escape form X- inactivation and other applications.' (Abstract; page 78; page 79, Discussion lines 1-3)		
X Y	Voullaire L et al; Prenatal Diagnosis. 1999 Sep; 19 (9): 846-51.  'Detection of aneuploidy in single cells using comparative genomic hybridization' (Abstract; Introduction, col 1; page 847, col 2, para 2; page 848, col 2, last para; Discussion)  1-6, 19-33 48- 10		
Y	Solinas-Toldo S, et al; Genes Chromosomes Cancer; 1997 Dec, 20 (4): 399-407. 'Matrix-based coparative genomic hybridization: biochips to screen for genomic imbalances.'  (Abstract; page 400, col 1; page 405, Discussion to page 406, col 1, para 1)	1-58, 104-10	
<b>x</b>	WO 2000/024925 (Luminis Pty Ltd) published 02.05.00. 'Karyotyping means and methods' (Entire document)	1-6, 11-16, 19-35, 40-45 48-58 and 104-108	
PX	Hu DG, et al; Molecular Human Reproduction; 2004 Apr, 10 (4): 283-9.  'Aneuploidy detection in single cells using DNA array-based comparative genomic hybridization'  (Entire document)	1-3, 5-15, 17- 32, 34-44, 46- 58 and 104- 108	
PX	WO 2003/027638 (Spectral Genomics, Inc) published 03.04.2003. 'Methods for detecting genetic mosaicisms using arrays.' (Entire document)	1-6, 11-16, 19-27, 29-35, 40-45, 48-58 and 104-108	

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Box No. 1	I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This interreasons:	This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.:				
	because they relate to subject matter not required to be searched by this Authority, namely:				
2. X	Claims Nos.: 59-103				
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
	The invention lies in a method for comparing chromosomes from two different cells of different karyotypes for detecting chromosomal abnormalities using CGH and microarrays. Claims 59-103, however, relate to a nucleic acid that is attached to a solid surface, and as such the claims seem to lack what appears to be an essential feature of the invention- a method of detecting chromosomal abnormalities.				
3.	Claims Nos.:				
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)				
Box No. 1	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This Inter	national Searching Authority found multiple inventions in this international application, as follows:				
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark o	n Protest				
	No protest accompanied the payment of additional search fees.				

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END OF ANNEX

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member
wo	2000024925			,
wo	2003027638	US	2003124584	
Due to	data integration issue	s this fan	uly listing may not i	aclude 10 digit Australian applications filed since May 2001.